SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-DLC1 + DLC2 antibody

Catalog Number: SL14340R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	DLC1 + DLC2
Immunogen:	KLH conjugated synthetic peptide derived from human Rho GTPase-activating protein 7: 1201-1300/1528
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Rabbit,Sheep)
Predicted MW.:	171/122kDa
Subcellular Location:	cytoplasmic The cell membrane Mitochondrion
Background:	This gene encodes a GTPase-activating protein (GAP) that is a member of the rhoGAP family of proteins which play a role in the regulation of small GTP-binding proteins. GAP family proteins participate in signaling pathways that regulate cell processes involved in cytoskeletal changes. This gene functions as a tumor suppressor gene in a number of common cancers, including prostate, lung, colorectal, and breast cancers. Multiple transcript variants due to alternative promoters and alternative splicing have been found for this gene.[provided by RefSeq, Apr 2010] **Function:** Functions as a GTPase-activating protein for the small GTPases RHOA, RHOB, RHOC and CDC42, terminating their downstream signaling. This induces morphological changes and detachment through cytoskeletal reorganization, playing a critical role in biological processes such as cell

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	migration and proliferation. Also functions in vivo as an activator of the phospholipase PLCD1. Active DLC1 increases cell migration velocity but reduces directionality. **Subunit:** Interacts with EF1A1, facilitates EF1A1 distribution to the membrane periphery and ruffles upon growth factor stimulation and suppresses cell migration. **Subcellular Location:** Cytoplasm. Cell junction, focal adhesion. Membrane; Peripheral membrane protein. Note=Colocalizes with EF1A1 at actin-rich regions in the cell periphery. **Tissue Specificity:** Highest level of expression in the spleen, with rather lower levels in prostate, testis, ovary, small intestine and colon, but none in the thymus. **Post-translational modifications:** Phosphorylation at Ser-88 appears to control the dimer-monomer transition. According to PubMed:15193260, it is phosphorylated at Ser-88 by PAK1, however, according to PubMed:18650427, the DYNLL1 dimer is not accessible for PAK1 and the phosphorylation could not be demonstrated in vitro. **Similarity:** Contains 1 Rho-GAP domain. Contains 1 SAM (sterile alpha motif) domain. Contains 1 START domain. **Database links:** **Entrez Gene:** 10395 Human **Entrez Gene:** 90627 Human **Entrez Gene:** 50768 Mouse Omim: 604258 Human Omim: 609866 Human **SwissProt:** Q96QB1 Human **SwissProt:** Q9Y3M8 Human **SwissProt:** Q9R0Z9 Mouse **Unigene:** 134296 Human **Unigene:** 210875 Mouse **SwissProt:** P63170 Rat **Unigene:** 5120 Human **Unigene:** 256858 Mouse **Unigene:** 35769 Rat **Unigene:** 507704 Human **Unigene:** 721224 Human

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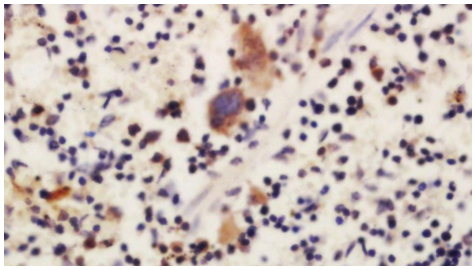
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[VALIDATION IMAGES]



Tissue/cell: rat spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-DLC1 Polyclonal Antibody, Unconjugated(SL14340R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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